



Date Mailed: May 18, 2004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Readhead et al.
Serial No. 10/008,385
Filed: November 12, 2001
For: IN VITRO TRANSFECTION, STORAGE AND
TRANSFER OF MALE GERM CELLS FOR
GENERATION OF TRANSGENIC SPECIES

Examiner: Paras, Peter, Jr.
Unit: 1632
Confirmation No.: 3519

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE COMMISSIONER FOR PATENTS	
ALEXANDRIA, VIRGINIA 22313-1450, ON	May 18, 2004 DATE
BY 	
May 18, 2004 (DATE OF SIGNATURE)	

Dear Sir or Madam:

Applicants' attorney submits herewith the full text of references
(see, PTO Form 1449 attached) of which he is aware, that he believes may be
material to the examination of this application and in respect of which there may
be a duty to disclose in accordance with 37 CFR 1.56. The filing of this
Information Disclosure Statement is after a first Office Action on the merits.

The filing of this information disclosure statement shall not be
construed as a representation that a search has been made (37 CFR 1.97(g)),
an admission that the information cited is, or is considered to be, material to
patentability or that no other material information exists (37 CFR 1.97(h)).
Further, the filing of this information disclosure statement shall not be construed
as an admission against interest in any manner.

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It is believed that this information disclosure statement is being filed after the mailing of a first office action on the merits.

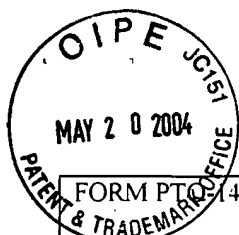
The Commissioner is hereby authorized to charge \$180.00 for the required fee and charge any other fee required or credit overpayments under 37 C.F.R. 1.16 or C.F.R. 1.17 to Deposit Account No. 50-1597.

Respectfully submitted,

By: 

Nisan A. Steinberg, Ph.D.
Registration No. 40,345

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FORM PTO 1449 (Modified)	ATTY DOCKET NO. 18810-81607	SERIAL NO. 10/008,385
List of Patents and Publications for Applicants Information Disclosure Statement	APPLICANT: Readhead et al.	
	FILING DATE: November 12, 2001	GROUP ART UNIT 1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	4 6 6 3 2 8 1	05/05/87	Gillies et al.			
	4 7 6 2 7 0 1	08/09/88	Horan et al.			
	4 8 7 0 0 0 9	09/26/89	Evans et al.			
	4 9 5 9 3 1 3	09/25/90	Taketo			
	4 9 7 8 3 3 2	12/18/90	Luck et al.			
	5 1 7 5 3 8 4	12/29/92	Krimpenfort et al.			
	5 2 0 6 1 4 3	04/27/93	Horan et al.			
	5 3 5 8 7 1 1	10/25/94	May et al.			
	5 3 7 5 6 0 6	12/27/94	Slezak et al.			
	5 4 2 2 2 6 6	06/06/95	Cormier et al.			
	5 4 3 0 0 5 7	07/04/95	Anderson et al.			
	5 4 3 4 3 4 0	07/18/95	Krimpenfort et al.			
	5 4 9 1 0 8 4	02/13/96	Chalfie et al.			
	5 5 2 1 2 9 1	05/28/96	Curjel et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation	
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WO 90/08192	07/26/90	EPO				
WO 92/03459	03/05/92	PCT				
WO 93/11228	06/10/93	PCT				
WO 95/02041	01/19/95	PCT				
EP 0 867 114 A1	09/30/98	EPO				

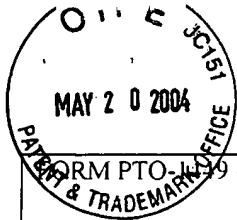
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	Avarbock, Mary R., et al., Reconstitution of spermatogenesis from frozen spermatogonial stem cells, <u>Nature Medicine</u> , Vol. 2, No. 6, pp. 693-696, (June, 1996).
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	5 5 4 3 2 9 1	08/06/96	Keyomarsi et al.			
	5 5 5 6 9 5 4	09/17/96	Burn et al.			
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	5 5 9 1 6 6 9	01/07/97	Krimpenfort et al.			
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	5 6 2 5 0 4 8	04/29/97	Tsien et al.			
	5 6 3 9 6 1 8	06/17/97	Gay			
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	5 8 4 0 4 7 8	11/24/98	Patterson et al.			

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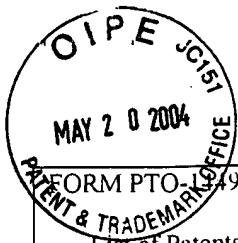
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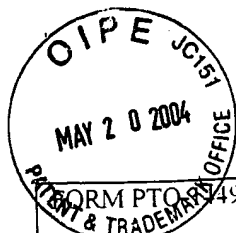
4.	Blanchard, K. T. et al., <i>Adenovirus-mediated gene transfer to rat testis in vivo</i> , Biol Reprod (1997 Feb); 56(2):495-500	✓
5.	Brinster, Ralph L., et al., <i>No Simple Solution for Making Transgenic Mice</i> , Cell, Vol. 59, pp. 239-241, Oct 20, 1989	✓
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7.	Brinster, Ralph L. et al., <i>Spermatogenesis following male germ-cell transplantation</i> , Proc. Natl. Acad. Sci. USA, Vol. 91, pp. 11298-11302, (Nov. 1994), Developmental Biology.	✓
8.	Chen, Shu-Hsia et al., <i>Gene therapy for brain tumors: Regression of experimental gliomas by adenovirus-mediated gene transfer in vivo</i> , Proc. Natl. Acad. Sci. USA, Vol. 91, pp. 3054-3057, April 1994	✓
9.	Chung, J. H. et al., <i>A 5' element of the chicken beta-globin domain serves as an insulator in human erythroid cells and protects against position effect in Drosophila</i> , Cell, 74(3):505-14, Aug 13, 1993, ABSTRACT ONLY	✓
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11.	Clouthier, D. E. et al., <i>Rat spermatogenesis in mouse testis</i> , Nature, 381 (6581): 418-421 (May 30, 1996).	✓
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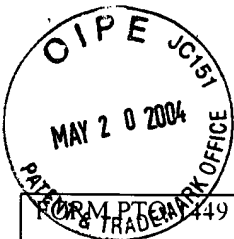
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13.	Desdouets, C. et al, <i>Cyclin A: function and expression during cell proliferation.</i> <input checked="" type="checkbox"/>
	Prog Cell Cycle Res, 1:115-23, 1995, ABSTRACT ONLY
14.	Graberek & Gergely, <i>Zero-length cross-linking procedure with the use of</i> <input checked="" type="checkbox"/>
	<i>active esters.</i> <u>Analyt. Biochem</u> 185: 131-135 (1990).
15.	Hagstrom, K., et al., <i>Fab-7 functions as a chromatin domain boundary to ensure</i> <input checked="" type="checkbox"/>
	<i>proper segment specification by the Drosophila bithorax complex.</i> <u>Genes Dev.</u>
	10(24):3202-15, Dec 15, 1996, ABSTRACT ONLY
16.	Horiguchi-Yamada, J., et al., <i>Changes of G1 cyclins, edk2, and cyclin A during</i> <input checked="" type="checkbox"/>
	<i>the differentiation of HL60 cells induced by TPA.</i> <u>Mol Cell Biochem.</u>
	132(1):31-7, Mar 16, 1994, ABSTRACT ONLY
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	<u>Human Reproduction</u> , Vol. 11, No. 6, pp. 1268-1272, (1996).
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	<i>spermatozoa from a frozen-thawed testicular biopsy specimen.</i>
	<u>Human Reproduction</u> , Vol. 11, No. 11, pp. 2472-2473, (1996).
19.	Jiang, F-X et al., <i>Male germ cell transplantation in rats: apparent</i> <input checked="" type="checkbox"/>
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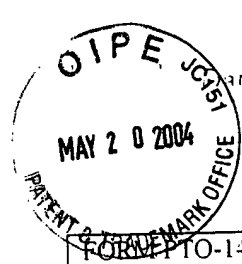
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20.	Jiang, Fang-Xu et al., <i>Different fate of primordial germ cells and gonocytes following transplantation</i> , <i>APMIS</i> , Vol. 106, p. 58-63, (1998).	✓
21.	Johnson L. et al., <i>Heterotopic transplantation as a model to study the regulation of spermatogenesis: some histomorphological considerations</i> <i>about sperm decline in man; Contracept Fertil Sex</i> 1997 Vol. 25(7-8), pp. 549-555. (1997)	✓
22.	Jones and Shenk, <i>An adenovirus type 5 early gene function regulates expression of other early viral genes</i> , <i>Proc. Natl. Acad. Sci. USA</i> , 76:(8)3665-3669 (1979)	✓
23.	Kang, M. J. et al., <i>Cyclins and cyclin dependent kinases during cardiac development</i> , <i>Mol Cells</i> , 7(3):360-6, (June 30, 1997) ABSTRACT ONLY	✓
24.	Kim, Jin-Hoi et al., <i>Development of a Positive method for Male stem Cell-Mediated Gene Transfer in Mouse and Pig</i> , <i>Molecular Reproduction and Development</i> , Vol. 48, No. 4, pp. 515-526, (1997)	✓
25.	Kim, V. Narry et al., <i>Minimal requirement for a Lentivirus Vector Based on Human Immunodeficiency Virus Type 1</i> , <i>Journal of Virology</i> , pp. 811-816. (Jan. 1998)	✓
26.	Langer, Robert S. et al., <i>Tissue Engineering: The obstacles to building new organs from cells and synthetic polymers are daunting but surmountable</i> <i>The Challenges Ahead</i> , <i>Scientific American</i> , pp. 86-89, April 1999	✓

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28.	Mittereder et al., <i>Evaluation of the concentration and bioactivity of adenovirus</i> ✓ <i>vectors for gene therapy</i> , J. Virology, 70: 7498-7509 (1996)
29.	Müller, C. et al., <i>Cell cycle regulated transcription of the promoter of the human cyclin A1 gene</i> , ✓ <i>Blood</i> , Journal of the American Society of Hematology, Vol. 90, No. 10, Suppl 1 (Part 1 of 2) Nov 15, 1997 ABSTRACT 1404
30.	Müller, C. et al., <i>Cyclin A1 promoter is trans-activated by the c-myb proto-onco</i> ✓ <i>gene</i> , Proc. of the Amer. Assoc. for Cancer Res, Vol. 39, Mar/Apr 1998 ABSTRACT 1742
31.	Müller, C. et al., <i>SP1 Family Members Regulate Expression of the Tissue Specific Human Cyclin A1</i> ✓ <i>Gene</i> , Blood Journal of the American society of Hematology, Americ. Soc. Of Hemat. 40th Annual Meeting, Dec 4-8, 1998 ABSTRACT 1534
32.	Müller, Carsten et al., <i>Cloning of the cyclin A1 Genomic Structure and Characterization of the</i> ✓ <i>Promoter Region</i> , The Journal of Biological Chemistry Vol. 276, No. 16, pp. 11220-11228, Apr 16, 1998
33.	Muramatsu T. et al., <i>Foreign gene expression in the mouse testis by localized</i> ✓ <i>in vivo gene transfer</i> , Biochem Biophys Res commun, 7:233(1):45-49 (Apr 1997)
34.	Nagano, M, et al., <i>Spermatogonial transplantation and reconstitution of donor</i> ✓ <i>cell spermatogenesis in recipient mice</i> , APMIS, 106, PP. 47-55, (1998)

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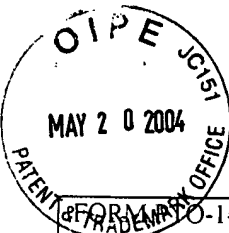
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35.	Naito M, et al., <i>Production of germline chimeric chickens, with high transmission rate of donor-derived gametes, produced by transfer of</i>	✓
	<i>primordial germ cells. Molecular Reprod Dev.</i> 39(2):153-161(Oct. 1994).	
36.	Naito M, et al., <i>Donor primordial germ cell-derived offspring from recipient germline chimaeric chickens: absence of long-term immune rejection</i>	✓
	<i>and effects on sex ratios. Br Poult Sci.</i> 39(1):20-23 (Mar. 1998).	
37.	Naldini, Luigi et al., <i>In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector. Science</i> , Vol. 272, pp. 263-69	✓
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38.	Ogawa, Takehiko et al., <i>Transplantation of testis germinal cells into mouse</i>	✓
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39.	Ono T. et al., <i>Transfer of male or female primordial germ cells</i>	✓
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40.	Paterlini, P. et al., <i>Cylin A expression in human hematological malignancies: a</i>	✓
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41.	Pedersen, Roger A., <i>Cells for Medicine. Embryonic Stem Cells for Medicine.</i>	✓
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42.	Perez-Cruet, M. J., et al., <i>Adenovirus-Mediated Gene Therapy of Experimental</i>	✓
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43.	Pikaart, Michael J., <i>Loss of transcriptional activity of a transgene is accompanied by DNA methylation and histone deacetylation and is prevented by insulators</i> , Genes & Development, 12:2852-2862, (1998).	✓
44.	Ravnik, S. E. et al., <i>The developmentally restricted pattern of expression in the male germ line of a murine cyclin A, cyclin A2, suggests roles in both mitotic and meiotic cell cycles</i> , Dev. Biol., 10:173(1):69-78, (Jan 10, 1996). ABSTRACT ONLY	✓
45.	Ravnik, S. E. et al., <i>Regulation of meiosis during mammalian spermatogenesis: the A-type cyclins and their associated cyclin-dependent kinases are differentially expressed in the germ-cell lineage</i> , Dev Bio, 207(2):408-18 (Mar 15, 1999). ABSTRACT ONLY	✓
46.	Russell, L.D. et al., <i>Ultrastructural observations of spermatogenesis in mice resulting from transplantatin of mouse spermatogonia</i> , J. Androl., 17(6):603-614 (Nov. 1996).	✓
47.	Schmidt, Jerzy A. et al., <i>Control of Erythroid differentiation. Possible Role of the Transferrin cycle</i> , Cell, Vol. 48, 41-51 (Jul 4, 1986).	✓
48.	Schiedner, Gudrun, <i>Genomic DNA transfer with a high-capacity adenovirus vector results in improved in vivo gene expression and decreased toxicity</i> , Nature Genetics, Vol. 18, pp. 180-183 (Feb 1998).	✓
49.	Sweeney, Claire et al., <i>A distinct cyclin A is expressed in germ cells in the mouse</i> , Development, Vol. 122, pp. 53-64 (1996).	✓
50.	Wagner, Ernst, <i>Transferrin-polycation conjugates as carriers for DNA uptake into cells</i> , Proc. Natl. Acad. Sci. USA, Vol 87, pp. 3430-3414 (May 1990).	✓

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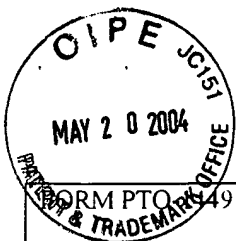
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51.	Wolffe, A. P., <i>Packaging principle: how DNA methylation and histone acetylation control the transcriptional activity of chromatin</i> , J. Exp Zool, 282(1-2):239-44 (Sep-Oct 1998). ABSTRACT ONLY ✓
52.	Yang, Rong et al., <i>Characterization of a Second Human Cyclin A That is Highly Expressed in Testis and in Several Leukemic Cell Lines</i> , Cancer Research, 57, pp. 913-920 (March 1, 1997). ✓
53.	PCT International Search Report re PCT/US98/24238, International Filing Date: 13/11/1998, Priority Date: 14/11/1997. ✓
54.	XP-002099974, J09220039, "Introducing Extraneous Gene Sperm Ovum Produce Transgenic Animal Comprise Introducing Extraneous Gene Liposome Complex Through Testicular Ovary Artery Sperm Testicular Ovum Ovary", Abstract Only. ✓
55.	Bucci, L. R. et al., <i>Effects of busulfan on murine spermatogenesis: cytotoxicity, sterility, sperm abnormalities, and dominant lethal mutations</i> , Research, Vol. 176, pp. 259-268, (1987). ✓
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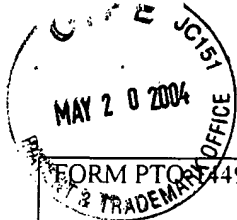
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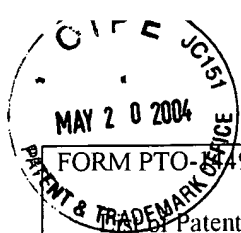
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